

# Brian Marks

## Contact Information

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## Languages

Python 2/3	●●●●●
Scala	●●●●●
SQL	●●●●●
C++	●●●●○
MATLAB	●●●●○
Java	●●●○○
JavaScript	●●○○○
HTML/CSS	●●○○○

## Skills and Competencies

AWS Tech	●●●●●
Data Pipelines	●●●●●
Parallel Programming	●●●●●
Cloud Computing	●●●●○
Web Development	●●●○○
Machine Learning	●●○○○
Figuring It Out	●●●●●

## Education

New York University – Tandon  
School of Engineering  
B.S. in Computer Science with  
Minors in Math and Physics  
Cumulative GPA: 3.8 – Magna  
Cum Laude

## Projects

### Senior project

- Website to match gamers using regression

### Machine learning

- Classify articles written by the New York Times using n-gram models

### Artificial intelligence

- Play Pacman using tree search, optimization, and other machine learning algorithms

## Professional Experience

### Curalate

*Software Engineer*

Aug 2016 – Present

Full stack Software Engineer at Curalate, a startup that connects brand content into products for brand sites and social media

- Created a self-service flow where client support contact was needed
- Added unit tests, end-to-end verifications, and canary tasks to identify data recording and reporting issues
- Optimized the clickstream data pipeline and added various metrics to support internal reporting requirements
- Designed and developed scheduled jobs to summarize metrics from various sources to provide clients with near real-time reporting
- Developed reporting pages on web app to display analytics to clients
- Reduced monthly spend by optimizing use of many AWS services
- Was on the On-Call Engineering (OCE) rotation for responding to high-priority alerts around the clock

### Nokia

*Software Engineer Co-op*

June 2015 – Aug 2016

Software Engineer Co-op in the wireless division of Nokia, a large company that works on cellular towers and related devices for the top wireless carriers

- Improved the software development environment with various tools and utilities, primarily in Python
- Maintained several tools using Perl, Ksh, and Awk to analyze data from configuration management
- Developed a web service using PHP, JS, and HTML to display reports in pivot table format
- Created a Python application to visualize large GNU Makefiles to assist debugging and parallelization
- Designed a Python application to parse large log files and perform data analysis and visualization
- Prototyped a Python application to find broken links in source code and suggest possible fixes

### Ford Foundation

*Technical Consultant*

June 2013 – Dec 2014

Infrastructure management at the Ford Foundation, a not-for-profit philanthropy that provides grants to local organizations who align with their mission

- Automated server management, application deployment, and report generation using Python
- Prototyped and developed an application to scrape information from several vendor websites to perform data analysis

### NYC Dept. of Education

*Help Desk Support*

Sept 2010 – June 2012

Help desk support for Lehman High School in the Bronx

- Provided hardware, software, and networking support to over 1300 computers and 5000 users
- Supervised the deployment and repair of computer systems when the manager was not present